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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,673	09/30/2004	Chyh-Yih Chang	13714-US-PA	5672	
31561 7:	590 10/20/2005		EXAMINER		
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAINEL, 100			MANDALA,	MANDALA, VICTOR A	
			ART UNIT	PAPER NUMBER	
			2826	<u> </u>	
TAIWAN	·		DATE MAILED: 10/20/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/11.673			Application No.	Applicant(s)					
Victor A. Mandala Jr. 2826	Office Action Summary		10/711,673	CHANG ET AL.					
The MAILING DATE of this communication appears on the cover sheat with the correspondence address - Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Exercised inter may be available under the provisions of 3 CPR 1.19(6). In overwith power, way reply be timely field after 50 KP, MoNTHS from the realing date of this communication. Failust on play which has det or entered periods for replically by adulus, usage SM (5) MONTHS from the mailing date of this communication. Failust on play which has det or entered periods for replically by adulus, usage SM (5) MONTHS from the mailing date of this communication. Failust on play which has det or entered periods for replically by adulus, usage SM (5) MONTHS from the mailing date of this communication, when it innerly filed, may reduce any same plantin mediators. Failust on play which has det or entered periods for replication. Failus to negation and the produce and the produce and the produce any same plantin mediators. Failus to negation and the play of the play of the communication, when it innerly filed, may reduce any same plantin mediators. Failus to negation and the play of the communication. Failus to negation and the play of th			Examiner	Art Unit					
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6-11, and 14-20 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,879,003 Cheng et al.

1. Referring to claim 1, a high voltage device for an electrostatic discharge protection device, comprising: a first type epitaxial silicon layer, (Figure 3 #14), disposed in the first type substrate, (Figure 3 #12); a first type well, (Figure 3 #26), disposed in the first type epitaxial silicon layer, (Figure 3 #14); a second type well, (Figure 3 #22), disposed in the first type epitaxial silicon layer, (Figure 3 #14), wherein the second type well, (Figure 3 #22), comprises a second type lightly doped region, (Figure 3 #22), and a second type heavily doped region, (Figure 3 #24), the second type lightly dope region, (Figure 3 #22), is located next to the first type well, (Figure 3 #26), and the second heavily doped region, (Figure 3 #24), is locate underneath a portion of the first type well, (Figure 3 #26), and the second type lightly doped region, (Figure 3 #22), wherein the first type well, (Figure 3 #26), adjoins with the second heavily doped region, (Figure 3 #24); a gate structure, (Figure 3 #20), disposed on a portion of the first type well, (Figure 3 #26), and the second type lightly doped region, (Figure 3 #22); a second type first doped region, (Figure 3 #32), and a second type second doped region, (Figure 3 #22); a

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#34), disposed in the second type lightly doped region, (Figure 3 #22), and the first type well, (Figure 3 #26), on each side of the gate structure, (Figure 3 #20), respectively; a first isolation structure, (Figure 3 #18), disposed in the second type lightly doped region, (Figure 3 #22), and between the gate structure, (Figure 3 #20), and the second type first doped region, (Figure 3 #36); and a first doped region, (Figure 3 #32), disposed in the first type well, (Figure 3 #26), and adjacent to the second type second doped region, (Figure 3 #34).

- 2. Referring to claim 2, a high voltage device, wherein the second type second lightly doped region, (Figure 3 #22), the first type well, (Figure 3 #26), and the second type second doped region, (Figure 3 #34), together constitute a parasitic bipolar transistor, and the second type heavily doped region, (Figure 3 #24), the first type well, (Figure 3 #26), and the second type second doped region, (Figure 3 #34), together constitute another parasitic bipolar transistor so that a pulse current entering from the second type first doped region, (Figure 3 #32), is able to channel away through the second type second doped region, (Figure 3 #34), after passing through the two parasitic transistors.
- Referring to claim 3, a high voltage device, wherein the PN junction between the second type heavily doped region, (Figure 3 #24), and the first type well, (Figure 3 #26), has a smaller breakdown voltage than the PN junction between the second type lightly doped region, (Figure 3 #22), and the first well, (Figure 3 #26), and the breakdown voltage of the PN junction between the second heavily doped region, (Figure 3 #24), and the first type well, (Figure 3 #26), is the breakdown voltage of the electrostatic discharge protection circuit.
- 4. Referring to claim 6, a high voltage device, wherein the first isolation structure comprises a field oxide isolation structure or a shallow trench isolation (STI) structure, (Figure 3 #18).

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Referring to claim 7, a high voltage device, wherein the second type first doped region, the second type lightly doped region, (Figure 3 #22), and the second type heavily doped region, (Figure 3 #24), together serves as a drain and the second type second doped region, (Figure 3 #34), serves as a source.

- 6. Referring to claim 8, a high voltage device, wherein the second type lightly doped region comprises a high voltage second type well, (Figure 3 #36).
- 7. Referring to claim 9, a high voltage device, wherein the second type heavily doped region comprises a second type buried layer, (Figure 3 #24).
- 8. Referring to claim 10, a high voltage device, wherein the first type is a P-type and the second type is an N-type, (Figure 3).
- Referring to claim 11, a high voltage device, comprising: a first type substrate, (Figure 3 #12); a first type epitaxial silicon layer, (Figure 3 #14), disposed in the first type substrate, (Figure 3 #12); a first type well, (Figure 3 #26), disposed in the first type epitaxial silicon layer, (Figure 3 #14); a second type well, (Figure 3 #22), disposed in the first type epitaxial silicon layer, (Figure 3 #14), wherein the second type well, (Figure 3 #22 & 24), comprising a second type lightly doped region, (Figure 3 #22), and a second type heavily doped region, (Figure 3 #24), the second type lightly doped region, (Figure 3 #22), is located next to the second type well, (Figure 3 #22 & 24), and the second heavily doped region, (Figure 3 #24), is located underneath a portion of the first type well, (Figure 3 #26), and the second type lightly doped region, (Figure 3 #22), wherein the first type well, (Figure 3 #26), adjoins with the second heavily doped region, (Figure 3 #24); a gate, (Figure 3 #20), structure disposed on a portion of the first type well, (Figure 3 #26), and the second type lightly doped region, (Figure 3 #22); a

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second type first doped region, (Figure 3 #36), and a second type second doped region, (Figure 3 #34), disposed in the second type lightly doped region, (Figure 3 #22), and the first type well, (Figure 3 #26), on each side of the gate, (Figure 3 #20), structure respectively, a first isolation structure, (Figure 3 #18), disposed in the second type lightly doped region, (Figure 3 #22), and between the gate structure, (Figure 3 #20), and the second type first doped region, (Figure 3 #36), and a first type doped region, (Figure 3 #32), disposed in the first type well, (Figure 3 #26), and adjacent to the second type second doped region, (Figure 3 #34).

- 10. Referring to claim 14, a high voltage device, wherein the first isolation structure comprises a field oxide isolation structure or a shallow trench (STI) structure, (Figure 3 #18).
- 11. Referring to claim 15, a high voltage device, wherein the high voltage has a variety of applications in the design of circuits, (Figure 3).
- 12. Referring to claim 16, a high voltage device, wherein the high voltage device is used inside display driver ICs, power supplies, power administrators, telecommunications, automobile electronics, and industrial controls, (it is inherent that the ESD protection circuit could be used in various application, which would be connected to input output pins of a circuit Col. 1 Lines 39-40).
- Referring to claim 17, a high voltage device, wherein the second type first doped region, the second type lightly doped region, (Figure 3 #22), and the second type heavily doped region, (Figure 3 #24), together serves as a drain and the second type second doped region, (Figure 3 #34), serves as a source.
- 14. Referring to claim 18, a high voltage device, wherein the second type lightly doped region comprises a high voltage second type well, (Figure 3 #36).

- Referring to claim 19, a high voltage device, wherein the second type heavily doped 15. region comprises a second type buried layer, (Figure 3 #24).
- Referring to claim 20, a high voltage device, wherein the first type is a P-type and the 16. second type is an N-type, (Figure 3).

Allowable Subject Matter

Claims 4 5, 12, and 13 are objected to as being dependent upon a rejected base claim, but 17. would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor A. Mandala Jr. whose telephone number is (571) 272-1918. The examiner can normally be reached on Monday through Thursday from 8am till 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Resolution EXAMINER TECHNOLOGY CENTER 2800

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VAMJ 10/17/05